

Data Validation Checklist

Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270D Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo
 Concurrence²: Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-85785-3
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 12/12/2012
 Date: 01/17/2013
 Date: 01/20/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (\leq 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; \leq 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?	✓			MB 640-98123/1-A: • Benzo[a]anthracene @ 9.11 µg/Kg (RL 6.6, MDL 0.61) • Benzo[a]pyrene @ 12.7 µg/Kg (RL 6.6, MDL 0.67)	

¹ All analytical work subcontracted to TestAmerica of Tallahassee, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				<ul style="list-style-type: none"> • Benzo[b]fluoranthene @ 16.3 µg/Kg (RL 6.6, MDL 0.92) • Benzo[g,h,i]perylene @ 7.72 µg/Kg (RL 6.6, MDL 1.1) • Benzo[k]fluoranthene @ 6.96 µg/Kg (RL 6.6, MDL 0.63) • Chrysene @ 9.23 µg/Kg (RL 6.6, MDL 0.73) • Dibenz(a,h)anthracene @ 2.51 J µg/Kg (RL 6.6, MDL 0.64) • Fluoranthene @ 5.19 J µg/Kg (RL 6.6, MDL 0.59) • Indeno[1,2,3-cd]pyrene @ 8.74 µg/Kg (RL 6.6, MDL 1.1) • Pyrene @ 4.83 J µg/Kg (RL 6.6, MDL 0.51) 	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 121112-RB-Shovel (680-85731-47).	
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (121112-RB-Shovel) was collected during the week of 12/10/12. The rinsate blank was analyzed for PAHs under Test America Job ID 680-85731-3.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)	✓			Blank contamination action levels (BCALs) ³ : <ul style="list-style-type: none"> • Benzo[a]anthracene: 45.5 µg/Kg (9.11 µg/Kg x5) • Benzo[a]pyrene: 63.5 µg/Kg (12.7 µg/Kg x5) • Benzo[b]fluoranthene: 81.5 µg/Kg (16.3 µg/Kg x5) • Benzo[g,h,i]perylene: 38.6 µg/Kg (7.72 µg/Kg x5) • Benzo[k]fluoranthene: 34.8 µg/Kg (6.96 µg/Kg x5) • Chrysene: 46.15 µg/Kg (9.23 µg/Kg x5) • Dibenz(a,h)anthracene: 12.55 µg/Kg (2.51 J µg/Kg x5) • Fluoranthene: 25.95 µg/Kg (5.19 J µg/Kg x5) • Indeno[1,2,3-cd]pyrene: 43.7 µg/Kg (8.74 µg/Kg x5) • Pyrene: 24.15 µg/Kg (4.83 J µg/Kg x5) 	U

³ BCAL developed based on the maximum amount observed in all blanks

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids. Sample results that were less than the sample-specific BCAL were U-flagged, and the sample detection limit elevated to the amount found in the sample.	
14. Is a field duplicate associated with this Job?	✓				
15. Was precision deemed acceptable as defined by the project plans?		✓			
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> • Instrument ID: TSMA5973 • Initial Calibration: 12/26/2012 • ICV: 12/26/12 @ 17:01 • CCV: 12/26/12 @ 18:11 & 12/27/12 @ 08:30 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> • ICAL (Criteria: ≤ 15 mean %RSD with no individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ◦ If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects ◦ If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%$ D ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): 		✓		ICV of 12/26/12 @ 17:01, instrument TSMA5973: Dibenz(a,h)anthracene %D @ -22.4 (Lab: ≤ 30 , Project: ≤ 20). J/UJ-Flag result in associated samples	J, UJ

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF<0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			Prep Batch 98123: 680-85785-52 (CV0511S-CS), MS/MSD	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results 		✓		CV0511S -CS (680-85785-52): <ul style="list-style-type: none"> • Benzo[a]pyrene MS %R was 142 (19-138). Qualification of data is not required, because the MSD %R (75) fell within control limits • Benzo[b]fluoranthene MS %R was 170 (26-124). Qualification of data is not required, because the MSD %R (59) fell within control limits • Chrysene MS %R was 122 (26-121). Qualification of data is not required, because the MSD %R (54) fell within control limits • Fluoranthene MS %R was 123 (21-122). Qualification of data is not required, because the MSD %R (48) fell within control limits 	
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result 		✓		CV0511S -CS (680-85785-52): <ul style="list-style-type: none"> • Benzo[b]fluoranthene @ 43%RPD (\leq34). J-Flag • Chrysene @ 41 (\leq33). J-Flag 	J
27. Were surrogate recoveries within lab/project specifications?		✓		o-Terphenyl recovered outside the surrogate recovery criteria for the following sample: <ul style="list-style-type: none"> • CV0511P-CS (680-85785-49), DF=25: 0%R (39-100) 	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> If 2 or more Acid or BN %R >UCL, then J-flag positive results If 2 or more Acid or BN %R \geq10%, but <LCL, then J-flag positive results and UJ-flag non-detect results If 2 or more Acid or BN , with 1 %R >UCL and 1 %R \geq10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 				<ul style="list-style-type: none"> CV0511Q-CS (680-85785-50), DF=25: 0%R (39-100) CV0511X-CS (680-85785-57), DF=25: 0%R (39-100) <p>Qualification of PAH results in the above-mentioned samples due to zero surrogate recovery is not required, because the surrogate was not recovered to due sample dilution.</p>	
<p>28. Were internal standard (IS) results within lab/project specifications?</p> <ul style="list-style-type: none"> If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 	✓				
29. Were lab comments included in report?	✓			Refer to Attachment B (Case Narrative)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment C**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

Data Validation Checklist (Continued)

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
 SDG: 68085785-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-85785-42	CV0511I-CS	Solid	12/12/12 11:00	12/14/12 11:51
680-85785-43	CV0511J-CS	Solid	12/12/12 11:05	12/14/12 11:51
680-85785-44	CV0511K-CS	Solid	12/12/12 11:07	12/14/12 11:51
680-85785-45	CV0511L-CS	Solid	12/12/12 11:17	12/14/12 11:51
680-85785-46	CV0511M-CS	Solid	12/12/12 11:30	12/14/12 11:51
680-85785-47	CV0511N-CS	Solid	12/12/12 11:32	12/14/12 11:51
680-85785-48	CV0511O-CS	Solid	12/12/12 11:54	12/14/12 11:51
680-85785-49	CV0511P-CS	Solid	12/12/12 13:50	12/14/12 11:51
680-85785-50	CV0511Q-CS	Solid	12/12/12 13:55	12/14/12 11:51
680-85785-51	CV0511R-CS	Solid	12/12/12 14:07	12/14/12 11:51
680-85785-52	CV0511S-CS	Solid	12/12/12 14:00	12/14/12 11:51
680-85785-53	CV0511T-CS	Solid	12/12/12 14:24	12/14/12 11:51
680-85785-54	CV0511U-CS	Solid	12/12/12 14:28	12/14/12 11:51
680-85785-55	CV0511V-CS	Solid	12/12/12 14:40	12/14/12 11:51
680-85785-56	CV0511W-CS	Solid	12/12/12 14:45	12/14/12 11:51
680-85785-57	CV0511X-CS	Solid	12/12/12 14:55	12/14/12 11:51
680-85785-58	CV0511Y-CS	Solid	12/12/12 15:00	12/14/12 11:51
680-85785-59	CV0511Z-CS	Solid	12/12/12 15:15	12/14/12 11:51
680-85785-60	CV0511AA-CS	Solid	12/12/12 15:20	12/14/12 11:51

1
2
3
4
5
6
7
8
9
10
11
12

ATTACHMENT B

CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
SDG: 68085785-3

Job ID: 680-85785-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-85785-3

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/14/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.2° C and 5.6° C.

SEMOVOLATILE ORGANIC COMPOUNDS (GC/MS) - LOW LEVEL

Samples CV0511I-CS (680-85785-42), CV0511J-CS (680-85785-43), CV0511K-CS (680-85785-44), CV0511L-CS (680-85785-45), CV0511M-CS (680-85785-46), CV0511N-CS (680-85785-47), CV0511O-CS (680-85785-48), CV0511P-CS (680-85785-49), CV0511Q-CS (680-85785-50), CV0511R-CS (680-85785-51), CV0511S-CS (680-85785-52), CV0511T-CS (680-85785-53), CV0511U-CS (680-85785-54), CV0511V-CS (680-85785-55), CV0511W-CS (680-85785-56), CV0511X-CS (680-85785-57), CV0511Y-CS (680-85785-58), CV0511Z-CS (680-85785-59) and CV0511AA-CS (680-85785-60) were analyzed for Semivolatile Organic Compounds (GC/MS) - Low level in accordance with EPA SW-846 Method 8270D. The samples were prepared on 12/17/2012 and analyzed on 12/26/2012 and 12/27/2012.

Samples CV0511L-CS (680-85785-45)[2X], CV0511N-CS (680-85785-47)[2X], CV0511P-CS (680-85785-49)[25X], CV0511Q-CS (680-85785-50)[25X], CV0511U-CS (680-85785-54)[2X], CV0511V-CS (680-85785-55)[2X], CV0511W-CS (680-85785-56)[2X], CV0511X-CS (680-85785-57)[25X], CV0511Y-CS (680-85785-58)[5X] and CV0511AA-CS (680-85785-60)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. Surrogate recoveries were diluted beyond quantitation levels in some of these samples.

Several analytes were detected in method blank MB 640-98123/1-A at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Dibenz(a,h)anthracene, Fluoranthene and Pyrene were detected in method blank MB 640-98123/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Several analytes recovered outside the recovery criteria for the MS of sample CV0511S-CSMS (680-85785-52) in batch 640-98325.

Benzo[b]fluoranthene and Chrysene exceeded the rpd limit for the MS/MSD of sample CV0511S-CS (680-85785-52) in batch 640-98325.

A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: the internal standard (ISTD) level was raised to 40 ppm from 2.0 ppm.

A crack in the vial caused the laboratory control sample duplicate (LCSD) for batch 640-98123 to be lost. The laboratory control sample (LCS) passed control criteria and has been reported. Prep batch 640-98123 was not reextracted due to the expiration of holding times.

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
SDG: 68085785-3

Job ID: 680-85785-3 (Continued)

Laboratory: TestAmerica Savannah (Continued)

The data has been qualified and reported.

The minimum relative response factor (RRF) criteria for the CCVIS analyzed in batches 640-98325 and 98315 was outside criteria for the following analytes: phenanthrene, benzo(a)anthracene. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analytes is considered estimated.

ATTACHMENT C

QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
 SDG: 68085785-3

Client Sample ID: CV0511I-CS

Date Collected: 12/12/12 11:00
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-42

Matrix: Solid
 Percent Solids: 70.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	13		9.5	0.82	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Acenaphthylene	27		9.5	0.75	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Anthracene	51		9.5	0.93	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Benzo[a]anthracene	220-B		9.5	0.88	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Benzo[a]pyrene	340-B		9.5	0.96	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Benzo[b]fluoranthene	610-B		9.5	1.3	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Benzo[g,h,i]perylene	120-B		9.5	1.6	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Benzo[k]fluoranthene	220-B		9.5	0.90	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Chrysene	260-B		9.5	1.1	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Dibenz(a,h)anthracene	46-B J		9.5	0.92	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Fluoranthene	340-B		9.5	0.85	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Fluorene	11		9.5	0.73	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Indeno[1,2,3-cd]pyrene	160-B		9.5	1.6	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
1-Methylnaphthalene	11		9.5	0.75	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
2-Methylnaphthalene	13		9.5	0.73	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Naphthalene	12		9.5	0.73	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Phenanthrene	160		9.5	0.62	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Pyrene	310-B		9.5	0.73	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	64		39 - 100				12/17/12 16:32	12/26/12 20:46	1

Client Sample ID: CV0511J-CS

Date Collected: 12/12/12 11:05
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-43

Matrix: Solid
 Percent Solids: 67.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11		9.8	0.85	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Acenaphthylene	13		9.8	0.78	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Anthracene	34		9.8	0.97	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Benzo[a]anthracene	150-B		9.8	0.91	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Benzo[a]pyrene	220-B		9.8	1.0	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Benzo[b]fluoranthene	380-B		9.8	1.4	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Benzo[g,h,i]perylene	82-B		9.8	1.6	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Benzo[k]fluoranthene	130-B		9.8	0.94	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Chrysene	190-B		9.8	1.1	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Dibenz(a,h)anthracene	30-B J		9.8	0.95	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Fluoranthene	240-B		9.8	0.88	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Fluorene	11		9.8	0.76	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Indeno[1,2,3-cd]pyrene	100-B		9.8	1.6	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
1-Methylnaphthalene	20		9.8	0.78	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
2-Methylnaphthalene	27		9.8	0.76	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Naphthalene	24		9.8	0.76	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Phenanthrene	140		9.8	0.64	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Pyrene	210-B		9.8	0.76	ug/Kg	⊗	12/17/12 16:32	12/26/12 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	78		39 - 100				12/17/12 16:32	12/26/12 21:05	1

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 310
 320
 330
 340
 350
 360
 370
 380
 390
 400
 410
 420
 430
 440
 450
 460
 470
 480
 490
 500
 510
 520
 530
 540
 550
 560
 570
 580
 590
 600
 610
 620
 630
 640
 650
 660
 670
 680
 690
 700
 710
 720
 730
 740
 750
 760
 770
 780
 790
 800
 810
 820
 830
 840
 850
 860
 870
 880
 890
 900
 910
 920
 930
 940
 950
 960
 970
 980
 990
 1000
 1010
 1020
 1030
 1040
 1050
 1060
 1070
 1080
 1090
 1100
 1110
 1120
 1130
 1140
 1150
 1160
 1170
 1180
 1190
 1200
 1210
 1220
 1230
 1240
 1250
 1260
 1270
 1280
 1290
 1300
 1310
 1320
 1330
 1340
 1350
 1360
 1370
 1380
 1390
 1400
 1410
 1420
 1430
 1440
 1450
 1460
 1470
 1480
 1490
 1500
 1510
 1520
 1530
 1540
 1550
 1560
 1570
 1580
 1590
 1600
 1610
 1620
 1630
 1640
 1650
 1660
 1670
 1680
 1690
 1700
 1710
 1720
 1730
 1740
 1750
 1760
 1770
 1780
 1790
 1800
 1810
 1820
 1830
 1840
 1850
 1860
 1870
 1880
 1890
 1900
 1910
 1920
 1930
 1940
 1950
 1960
 1970
 1980
 1990
 2000
 2010
 2020
 2030
 2040
 2050
 2060
 2070
 2080
 2090
 2100
 2110
 2120
 2130
 2140
 2150
 2160
 2170
 2180
 2190
 2200
 2210
 2220
 2230
 2240
 2250
 2260
 2270
 2280
 2290
 2300
 2310
 2320
 2330
 2340
 2350
 2360
 2370
 2380
 2390
 2400
 2410
 2420
 2430
 2440
 2450
 2460
 2470
 2480
 2490
 2500
 2510
 2520
 2530
 2540
 2550
 2560
 2570
 2580
 2590
 2600
 2610
 2620
 2630
 2640
 2650
 2660
 2670
 2680
 2690
 2700
 2710
 2720
 2730
 2740
 2750
 2760
 2770
 2780
 2790
 2800
 2810
 2820
 2830
 2840
 2850
 2860
 2870
 2880
 2890
 2900
 2910
 2920
 2930
 2940
 2950
 2960
 2970
 2980
 2990
 3000
 3010
 3020
 3030
 3040
 3050
 3060
 3070
 3080
 3090
 3100
 3110
 3120
 3130
 3140
 3150
 3160
 3170
 3180
 3190
 3200
 3210
 3220
 3230
 3240
 3250
 3260
 3270
 3280
 3290
 3300
 3310
 3320
 3330
 3340
 3350
 3360
 3370
 3380
 3390
 3300
 3310
 3320
 3330
 3340
 3350
 3360
 3370
 3380
 3390
 3400
 3410
 3420
 3430
 3440
 3450
 3460
 3470
 3480
 3490
 3500
 3510
 3520
 3530
 3540
 3550
 3560
 3570
 3580
 3590
 3500
 3510
 3520
 3530
 3540
 3550
 3560
 3570
 3580
 3590
 3600
 3610
 3620
 3630
 3640
 3650
 3660
 3670
 3680
 3690
 3600
 3610
 3620
 3630
 3640
 3650
 3660
 3670
 3680
 3690
 3700
 3710
 3720
 3730
 3740
 3750
 3760
 3770
 3780
 3790
 3700
 3710
 3720
 3730
 3740
 3750
 3760
 3770
 3780
 3790
 3800
 3810
 3820
 3830
 3840
 3850
 3860
 3870
 3880
 3890
 3800
 3810
 3820
 3830
 3840
 3850
 3860
 3870
 3880
 3890
 3900
 3910
 3920
 3930
 3940
 3950
 3960
 3970
 3980
 3990
 3900
 3910
 3920
 3930
 3940
 3950
 3960
 3970
 3980
 3990
 4000
 4010
 4020
 4030
 4040
 4050
 4060
 4070
 4080
 4090
 4000
 4010
 4020
 4030
 4040
 4050
 4060
 4070
 4080
 4090
 4100
 4110
 4120
 4130
 4140
 4150
 4160
 4170
 4180
 4190
 4100
 4110
 4120
 4130
 4140
 4150
 4160
 4170
 4180
 4190
 4200
 4210
 4220
 4230
 4240
 4250
 4260
 4270
 4280
 4290
 4200
 4210
 4220
 4230
 4240
 4250
 4260
 4270
 42

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
SDG: 68085785-3

Client Sample ID: CV0511K-CS

Date Collected: 12/12/12 11:07

Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-44

Matrix: Solid

Percent Solids: 71.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35		9.3	0.80	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Acenaphthylene	17		9.3	0.73	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Anthracene	81		9.3	0.91	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Benzo[a]anthracene	420-B		9.3	0.86	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Benzo[a]pyrene	530-B		9.3	0.94	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Benzo[b]fluoranthene	740-B		9.3	1.3	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Benzo[g,h,i]perylene	340-B		9.3	1.5	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Benzo[k]fluoranthene	290-B		9.3	0.88	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Chrysene	440-B		9.3	1.0	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Dibenz(a,h)anthracene	110-B	J	9.3	0.90	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Fluoranthene	700-B		9.3	0.83	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Fluorene	31		9.3	0.72	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Indeno[1,2,3-cd]pyrene	380-B		9.3	1.5	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
1-Methylnaphthalene	20		9.3	0.73	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
2-Methylnaphthalene	26		9.3	0.72	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Naphthalene	24		9.3	0.72	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Phenanthrene	380		9.3	0.61	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Pyrene	590-B		9.3	0.72	ug/Kg	☀	12/17/12 16:32	12/27/12 09:28	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>		80		39 - 100			12/17/12 16:32	12/27/12 09:28	1

Client Sample ID: CV0511L-CS

Date Collected: 12/12/12 11:17

Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-45

Matrix: Solid

Percent Solids: 65.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	55		20	1.8	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Acenaphthylene	28		20	1.6	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Anthracene	150		20	2.0	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Benzo[a]anthracene	760-B		20	1.9	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Benzo[a]pyrene	940-B		20	2.1	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Benzo[b]fluoranthene	1500-B		20	2.9	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Benzo[g,h,i]perylene	260-B		20	3.4	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Benzo[k]fluoranthene	600-B		20	2.0	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Chrysene	800-B		20	2.3	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Dibenz(a,h)anthracene	93-B	J	20	2.0	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Fluoranthene	1300-B		20	1.8	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Fluorene	49		20	1.6	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Indeno[1,2,3-cd]pyrene	350-B		20	3.4	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
1-Methylnaphthalene	24		20	1.6	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
2-Methylnaphthalene	30		20	1.6	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Naphthalene	28		20	1.6	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Phenanthrene	620		20	1.3	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Pyrene	1100-B		20	1.6	ug/Kg	☀	12/17/12 16:32	12/27/12 17:47	2
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>		67		39 - 100			12/17/12 16:32	12/27/12 17:47	2

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
 SDG: 68085785-3

Client Sample ID: CV0511M-CS

Date Collected: 12/12/12 11:30
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-46

Matrix: Solid
 Percent Solids: 66.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	19		9.8	0.85	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Acenaphthylene	10		9.8	0.77	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Anthracene	52		9.8	0.96	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Benzo[a]anthracene	320-B		9.8	0.91	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Benzo[a]pyrene	490-B		9.8	0.99	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Benzo[b]fluoranthene	700-B		9.8	1.4	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Benzo[g,h,i]perylene	280-B		9.8	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Benzo[k]fluoranthene	230-B		9.8	0.94	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Chrysene	340-B		9.8	1.1	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Dibenz(a,h)anthracene	92-B J		9.8	0.95	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Fluoranthene	500-B		9.8	0.88	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Fluorene	16		9.8	0.76	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Indeno[1,2,3-cd]pyrene	320-B		9.8	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
1-Methylnaphthalene	15		9.8	0.77	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
2-Methylnaphthalene	18		9.8	0.76	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Naphthalene	17		9.8	0.76	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Phenanthrene	240		9.8	0.64	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Pyrene	460-B		9.8	0.76	ug/Kg	⊗	12/17/12 16:32	12/27/12 10:07	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	69						12/17/12 16:32	12/27/12 10:07	1
<hr/>									

Client Sample ID: CV0511N-CS

Date Collected: 12/12/12 11:32
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-47

Matrix: Solid
 Percent Solids: 69.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	37		19	1.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Acenaphthylene	14 J		19	1.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Anthracene	100		19	1.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Benzo[a]anthracene	570-B		19	1.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Benzo[a]pyrene	810-B		19	1.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Benzo[b]fluoranthene	1400-B		19	2.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Benzo[g,h,i]perylene	250-B		19	3.1	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Benzo[k]fluoranthene	440-B		19	1.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Chrysene	630-B		19	2.1	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Dibenz(a,h)anthracene	96-B J		19	1.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Fluoranthene	900-B		19	1.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Fluorene	36		19	1.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Indeno[1,2,3-cd]pyrene	320-B		19	3.1	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
1-Methylnaphthalene	26		19	1.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
2-Methylnaphthalene	32		19	1.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Naphthalene	30		19	1.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Phenanthrene	450		19	1.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Pyrene	830-B		19	1.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:06	2
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	66						12/17/12 16:32	12/27/12 18:06	2
<hr/>									

TestAmerica Savannah

1
2
3
4
5
6
7
8
9
10
11
12

1 (OTIE, October 2012)
2 Avenue Removal Site, Birmingham, Alabama
2 with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama
2 URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama
2 Sample results have been qualified by the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
SDG: 68085785-3

Client Sample ID: CV0511O-CS

Date Collected: 12/12/12 11:54

Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-48

Matrix: Solid

Percent Solids: 63.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	26		10	0.89	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Acenaphthylene	12		10	0.81	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Anthracene	78		10	1.0	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Benzo[a]anthracene	380-B		10	0.95	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Benzo[a]pyrene	530-B		10	1.0	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Benzo[b]fluoranthene	770-B		10	1.4	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Benzo[g,h,i]perylene	230-B		10	1.7	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Benzo[k]fluoranthene	270-B		10	0.98	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Chrysene	390-B		10	1.1	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Dibenz(a,h)anthracene	77-B	J	10	1.0	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Fluoranthene	630-B		10	0.92	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Fluorene	25		10	0.80	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Indeno[1,2,3-cd]pyrene	280-B		10	1.7	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
1-Methylnaphthalene	17		10	0.81	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
2-Methylnaphthalene	19		10	0.80	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Naphthalene	19		10	0.80	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Phenanthrene	330		10	0.67	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Pyrene	550-B		10	0.80	ug/Kg	●	12/17/12 16:32	12/27/12 10:45	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>		44		39 - 100			12/17/12 16:32	12/27/12 10:45	1

Client Sample ID: CV0511P-CS

Date Collected: 12/12/12 13:50

Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-49

Matrix: Solid

Percent Solids: 78.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyst	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil. Fac.
Acenaphthene	530		210	18	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Acenaphthylene	63	J	210	16	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Anthracene	1300		210	20	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Benzo[a]anthracene	9200	B	210	19	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Benzo[a]pyrene	10000	B	210	21	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Benzo[b]fluoranthene	16000	B	210	29	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Benzo[g,h,i]perylene	2200	B	210	34	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Benzo[k]fluoranthene	6200	B	210	20	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Chrysene	9200	B	210	23	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Dibenz(a,h)anthracene	850	B J	210	20	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Fluoranthene	17000	B	210	19	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Fluorene	340		210	16	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Indeno[1,2,3-cd]pyrene	3100	B	210	34	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
1-Methylnaphthalene	210	U	210	16	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
2-Methylnaphthalene	17	J	210	16	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Naphthalene	210	U	210	16	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Phenanthrene	6500		210	14	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Pyrene	15000	B	210	16	ug/Kg	☀	12/17/12 16:32	12/27/12 18:25	25
Surrogate		%Recovery	Qualifier	Limits		Prepared		Analyzed	Dil. Fac.
<i>o-Terphenyl (Surr)</i>		0	X	39 - 100		12/17/12 16:32		12/27/12 18:25	25

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
 SDG: 68085785-3

Client Sample ID: CV0511Q-CS

Date Collected: 12/12/12 13:55
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-50

Matrix: Solid
 Percent Solids: 75.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1400		220	19	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Acenaphthylene	62	J	220	17	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Anthracene	2400		220	21	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Benzo[a]anthracene	9100	B	220	20	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Benzo[a]pyrene	8800	B	220	22	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Benzo[b]fluoranthene	14000	B	220	31	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Benzo[g,h,i]perylene	1800	B	220	36	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Benzo[k]fluoranthene	5800	B	220	21	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Chrysene	8700	B	220	24	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Dibenz(a,h)anthracene	740	B J	220	21	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Fluoranthene	19000	B	220	19	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Fluorene	900		220	17	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Indeno[1,2,3-cd]pyrene	2700	B	220	36	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
1-Methylnaphthalene	43	J	220	17	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
2-Methylnaphthalene	38	J	220	17	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Naphthalene	220	U	220	17	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Phenanthrene	11000		220	14	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25 ^a
Pyrene	15000	B	220	17	ug/Kg	⊗	12/17/12 16:32	12/27/12 18:45	25
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	0	X		39 - 100			12/17/12 16:32	12/27/12 18:45	25

Client Sample ID: CV0511R-CS

Date Collected: 12/12/12 14:07
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-51

Matrix: Solid
 Percent Solids: 66.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	16		9.9	0.86	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Acenaphthylene	18		9.9	0.79	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Anthracene	51		9.9	0.98	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Benzo[a]anthracene	280	B	9.9	0.92	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Benzo[a]pyrene	380	B	9.9	1.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Benzo[b]fluoranthene	640	B	9.9	1.4	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Benzo[g,h,i]perylene	120	B	9.9	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Benzo[k]fluoranthene	230	B	9.9	0.95	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Chrysene	320	B	9.9	1.1	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Dibenz(a,h)anthracene	44	B J	9.9	0.96	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Fluoranthene	470	B	9.9	0.89	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Fluorene	13		9.9	0.77	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Indeno[1,2,3-cd]pyrene	160	B	9.9	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
1-Methylnaphthalene	16		9.9	0.79	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
2-Methylnaphthalene	19		9.9	0.77	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Naphthalene	17		9.9	0.77	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Phenanthrene	200		9.9	0.65	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Pyrene	390	B	9.9	0.77	ug/Kg	⊗	12/17/12 16:32	12/27/12 11:43	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	74			39 - 100			12/17/12 16:32	12/27/12 11:43	1

TestAmerica Savannah

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 310
 320
 330
 340
 350
 360
 370
 380
 390
 400
 410
 420
 430
 440
 450
 460
 470
 480
 490
 500
 510
 520
 530
 540
 550
 560
 570
 580
 590
 600
 610
 620
 630
 640
 650
 660
 670
 680
 690
 700
 710
 720
 730
 740
 750
 760
 770
 780
 790
 800
 810
 820
 830
 840
 850
 860
 870
 880
 890
 900
 910
 920
 930
 940
 950
 960
 970
 980
 990
 1000
 1010
 1020
 1030
 1040
 1050
 1060
 1070
 1080
 1090
 1100
 1110
 1120
 1130
 1140
 1150
 1160
 1170
 1180
 1190
 1200
 1210
 1220
 1230
 1240
 1250
 1260
 1270
 1280
 1290
 1300
 1310
 1320
 1330
 1340
 1350
 1360
 1370
 1380
 1390
 1400
 1410
 1420
 1430
 1440
 1450
 1460
 1470
 1480
 1490
 1500
 1510
 1520
 1530
 1540
 1550
 1560
 1570
 1580
 1590
 1600
 1610
 1620
 1630
 1640
 1650
 1660
 1670
 1680
 1690
 1700
 1710
 1720
 1730
 1740
 1750
 1760
 1770
 1780
 1790
 1800
 1810
 1820
 1830
 1840
 1850
 1860
 1870
 1880
 1890
 1900
 1910
 1920
 1930
 1940
 1950
 1960
 1970
 1980
 1990
 2000
 2010
 2020
 2030
 2040
 2050
 2060
 2070
 2080
 2090
 2100
 2110
 2120
 2130
 2140
 2150
 2160
 2170
 2180
 2190
 2200
 2210
 2220
 2230
 2240
 2250
 2260
 2270
 2280
 2290
 2300
 2310
 2320
 2330
 2340
 2350
 2360
 2370
 2380
 2390
 2400
 2410
 2420
 2430
 2440
 2450
 2460
 2470
 2480
 2490
 2500
 2510
 2520
 2530
 2540
 2550
 2560
 2570
 2580
 2590
 2600
 2610
 2620
 2630
 2640
 2650
 2660
 2670
 2680
 2690
 2700
 2710
 2720
 2730
 2740
 2750
 2760
 2770
 2780
 2790
 2800
 2810
 2820
 2830
 2840
 2850
 2860
 2870
 2880
 2890
 2900
 2910
 2920
 2930
 2940
 2950
 2960
 2970
 2980
 2990
 3000
 3010
 3020
 3030
 3040
 3050
 3060
 3070
 3080
 3090
 3100
 3110
 3120
 3130
 3140
 3150
 3160
 3170
 3180
 3190
 3200
 3210
 3220
 3230
 3240
 3250
 3260
 3270
 3280
 3290
 3300
 3310
 3320
 3330
 3340
 3350
 3360
 3370
 3380
 3390
 3400
 3410
 3420
 3430
 3440
 3450
 3460
 3470
 3480
 3490
 3500
 3510
 3520
 3530
 3540
 3550
 3560
 3570
 3580
 3590
 3600
 3610
 3620
 3630
 3640
 3650
 3660
 3670
 3680
 3690
 3700
 3710
 3720
 3730
 3740
 3750
 3760
 3770
 3780
 3790
 3800
 3810
 3820
 3830
 3840
 3850
 3860
 3870
 3880
 3890
 3900
 3910
 3920
 3930
 3940
 3950
 3960
 3970
 3980
 3990
 4000
 4010
 4020
 4030
 4040
 4050
 4060
 4070
 4080
 4090
 4100
 4110
 4120
 4130
 4140
 4150
 4160
 4170
 4180
 4190
 4200
 4210
 4220
 4230
 4240
 4250
 4260
 4270
 4280
 4290
 4300
 4310
 4320
 4330
 4340
 4350
 4360
 4370
 4380
 4390
 4400
 4410
 4420
 4430
 4440
 4450
 4460
 4470
 4480
 4490
 4500
 4510
 4520
 4530
 4540
 4550
 4560
 4570
 4580
 4590
 4600
 4610
 4620
 4630
 4640
 4650
 4660
 4670
 4680
 4690
 4700
 4710
 4720
 4730
 4740
 4750
 4760
 4770
 4780
 4790
 4800
 4810
 4820
 4830
 4840
 4850
 4860
 4870
 4880
 4890
 4900
 4910
 4920
 4930
 4940
 4950
 4960
 4970
 4980
 4990

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
 SDG: 68085785-3

Client Sample ID: CV0511S-CS

Date Collected: 12/12/12 14:00
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-52

Matrix: Solid
 Percent Solids: 63.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	9.1	J	11	0.91	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Acenaphthylene	6.6	J	11	0.83	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Anthracene	22		11	1.0	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Benzo[a]anthracene	130	B	11	0.98	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Benzo[a]pyrene	190	B	11	1.1	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Benzo[b]fluoranthene	290	B J	11	1.5	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Benzo[g,h,i]perylene	100	B	11	1.7	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Benzo[k]fluoranthene	100	B	11	1.0	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Chrysene	160	B J	11	1.2	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Dibenz(a,h)anthracene	34	B J	11	1.0	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Fluoranthene	240	B	11	0.95	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Fluorene	7.3	J	11	0.82	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Indeno[1,2,3-cd]pyrene	120	B	11	1.7	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
1-Methylnaphthalene	17		11	0.83	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
2-Methylnaphthalene	22		11	0.82	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Naphthalene	22		11	0.82	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Phenanthrene	120		11	0.69	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Pyrene	200	B	11	0.82	ug/Kg	⊗	12/17/12 16:32	12/26/12 20:07	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	77			39 - 100			12/17/12 16:32	12/26/12 20:07	1

Client Sample ID: CV0511T-CS

Date Collected: 12/12/12 14:24
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-53

Matrix: Solid
 Percent Solids: 62.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	13		11	0.92	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Acenaphthylene	12		11	0.84	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Anthracene	43		11	1.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Benzo[a]anthracene	260	B	11	0.98	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Benzo[a]pyrene	340	B	11	1.1	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Benzo[b]fluoranthene	550	B	11	1.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Benzo[g,h,i]perylene	110	B	11	1.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Benzo[k]fluoranthene	190	B	11	1.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Chrysene	280	B	11	1.2	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Dibenz(a,h)anthracene	42	B J	11	1.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Fluoranthene	410	B	11	0.95	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Fluorene	13		11	0.82	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Indeno[1,2,3-cd]pyrene	140	B	11	1.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
1-Methylnaphthalene	24		11	0.84	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
2-Methylnaphthalene	30		11	0.82	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Naphthalene	29		11	0.82	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Phenanthrene	190		11	0.70	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Pyrene	360	B	11	0.82	ug/Kg	⊗	12/17/12 16:32	12/27/12 12:02	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	77			39 - 100			12/17/12 16:32	12/27/12 12:02	1

TestAmerica Savannah

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 310
 320
 330
 340
 350
 360
 370
 380
 390
 400
 410
 420
 430
 440
 450
 460
 470
 480
 490
 500
 510
 520
 530
 540
 550
 560
 570
 580
 590
 600
 610
 620
 630
 640
 650
 660
 670
 680
 690
 700
 710
 720
 730
 740
 750
 760
 770
 780
 790
 800
 810
 820
 830
 840
 850
 860
 870
 880
 890
 900
 910
 920
 930
 940
 950
 960
 970
 980
 990
 1000
 1010
 1020
 1030
 1040
 1050
 1060
 1070
 1080
 1090
 1100
 1110
 1120
 1130
 1140
 1150
 1160
 1170
 1180
 1190
 1200
 1210
 1220
 1230
 1240
 1250
 1260
 1270
 1280
 1290
 1300
 1310
 1320
 1330
 1340
 1350
 1360
 1370
 1380
 1390
 1400
 1410
 1420
 1430
 1440
 1450
 1460
 1470
 1480
 1490
 1500
 1510
 1520
 1530
 1540
 1550
 1560
 1570
 1580
 1590
 1600
 1610
 1620
 1630
 1640
 1650
 1660
 1670
 1680
 1690
 1700
 1710
 1720
 1730
 1740
 1750
 1760
 1770
 1780
 1790
 1800
 1810
 1820
 1830
 1840
 1850
 1860
 1870
 1880
 1890
 1900
 1910
 1920
 1930
 1940
 1950
 1960
 1970
 1980
 1990
 2000
 2010
 2020
 2030
 2040
 2050
 2060
 2070
 2080
 2090
 2100
 2110
 2120
 2130
 2140
 2150
 2160
 2170
 2180
 2190
 2200
 2210
 2220
 2230
 2240
 2250
 2260
 2270
 2280
 2290
 2300
 2310
 2320
 2330
 2340
 2350
 2360
 2370
 2380
 2390
 2400
 2410
 2420
 2430
 2440
 2450
 2460
 2470
 2480
 2490
 2500
 2510
 2520
 2530
 2540
 2550
 2560
 2570
 2580
 2590
 2600
 2610
 2620
 2630
 2640
 2650
 2660
 2670
 2680
 2690
 2700
 2710
 2720
 2730
 2740
 2750
 2760
 2770
 2780
 2790
 2800
 2810
 2820
 2830
 2840
 2850
 2860
 2870
 2880
 2890
 2900
 2910
 2920
 2930
 2940
 2950
 2960
 2970
 2980
 2990
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900
 5000
 5100
 5200
 5300
 5400
 5500
 5600
 5700
 5800
 5900
 6000
 6100
 6200
 6300
 6400
 6500
 6600
 6700
 6800
 6900
 7000
 7100
 7200
 7300
 7400
 7500
 7600
 7700
 7800
 7900
 8000
 8100
 8200
 8300
 8400
 8500
 8600
 8700
 8800
 8900
 9000
 9100
 9200
 9300
 9400
 9500
 9600
 9700
 9800
 9900
 10000
 10100
 10200
 10300
 10400
 10500
 10600
 10700
 10800
 10900
 11000
 11100
 11200
 11300
 11400
 11500
 11600
 11700
 11800
 11900
 12000
 12100
 12200
 12300
 12400
 12500
 12600
 12700
 12800
 12900
 13000
 13100
 13200
 13300
 13400
 13500
 13600
 13700
 13800
 13900
 14000
 14100
 14200
 14300
 14400
 14500
 14600
 14700
 14800
 14900
 15000
 15100
 15200
 15300
 15400
 15500
 15600
 15700
 15800
 15900
 16000
 16100
 16200
 16300
 16400
 16500
 16600
 16700
 16800
 16900
 17000
 17100
 17200
 17300
 17400
 17500
 17600
 17700
 17800
 17900
 18000
 18100
 18200
 18300
 18400
 18500
 18600
 18700
 18800
 18900
 19000
 19100
 19200
 19300
 19400
 19500
 19600
 19700
 19800
 19900
 20000
 20100
 20200
 20300
 20400
 20500
 20600
 20700
 20800
 20900
 21000
 21100
 21200
 21300
 21400
 21500
 21600
 21700
 21800
 21900
 22000
 22100
 22200
 22300
 22400
 22500<br

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
 SDG: 68085785-3

Client Sample ID: CV0511U-CS

Date Collected: 12/12/12 14:28
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-54

Matrix: Solid
 Percent Solids: 64.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	41		21	1.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Acenaphthylene	18	J	21	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Anthracene	130		21	2.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Benzo[a]anthracene	620	B	21	1.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Benzo[a]pyrene	690	B	21	2.1	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Benzo[b]fluoranthene	1100	B	21	2.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Benzo[g,h,i]perylene	170	B	21	3.4	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Benzo[k]fluoranthene	400	B	21	2.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Chrysene	620	B	21	2.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Dibenz(a,h)anthracene	67	B J	21	2.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Fluoranthene	1000	B	21	1.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Fluorene	37		21	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Indeno[1,2,3-cd]pyrene	230	B	21	3.4	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
1-Methylnaphthalene	25		21	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
2-Methylnaphthalene	30		21	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Naphthalene	30		21	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Phenanthrene	500		21	1.4	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Pyrene	950	B	21	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:03	2
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	73			39 - 100			12/17/12 16:32	12/27/12 19:03	

Client Sample ID: CV0511V-CS

Date Collected: 12/12/12 14:40
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-55

Matrix: Solid
 Percent Solids: 66.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	35		20	1.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Acenaphthylene	17	J	20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Anthracene	98		20	2.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Benzo[a]anthracene	520	B	20	1.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Benzo[a]pyrene	610	B	20	2.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Benzo[b]fluoranthene	960	B	20	2.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Benzo[g,h,i]perylene	170	B	20	3.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Benzo[k]fluoranthene	350	B	20	1.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Chrysene	530	B	20	2.2	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Dibenz(a,h)anthracene	62	B J	20	1.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Fluoranthene	900	B	20	1.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Fluorene	31		20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Indeno[1,2,3-cd]pyrene	200	B	20	3.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
1-Methylnaphthalene	21		20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
2-Methylnaphthalene	25		20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Naphthalene	22		20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Phenanthrene	430		20	1.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Pyrene	840	B	20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:21	2
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	56			39 - 100			12/17/12 16:32	12/27/12 19:21	2

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
 SDG: 68085785-3

Client Sample ID: CV0511W-CS

Date Collected: 12/12/12 14:45
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-56

Matrix: Solid
 Percent Solids: 65.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	38		20	1.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Acenaphthylene	14 J		20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Anthracene	100		20	2.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Benzo[a]anthracene	490 B		20	1.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Benzo[a]pyrene	590 B		20	2.1	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Benzo[b]fluoranthene	1000 B		20	2.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Benzo[g,h,i]perylene	150 B		20	3.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Benzo[k]fluoranthene	330 B		20	1.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Chrysene	500 B		20	2.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Dibenz(a,h)anthracene	61 B J		20	2.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Fluoranthene	810 B		20	1.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Fluorene	34		20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Indeno[1,2,3-cd]pyrene	200 B		20	3.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
1-Methylnaphthalene	27		20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
2-Methylnaphthalene	30		20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Naphthalene	27		20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Phenanthrene	400		20	1.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Pyrene	740 B		20	1.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:40	2
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	71			39 - 100			12/17/12 16:32	12/27/12 19:40	

Client Sample ID: CV0511X-CS

Date Collected: 12/12/12 14:55
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-57

Matrix: Solid
 Percent Solids: 78.9

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	740		210	18	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Acenaphthylene	53 J		210	16	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Anthracene	1600		210	20	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Benzo[a]anthracene	8600 B		210	19	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Benzo[a]pyrene	9100 B		210	21	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Benzo[b]fluoranthene	15000 B		210	29	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Benzo[g,h,i]perylene	1900 B		210	34	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Benzo[k]fluoranthene	5500 B		210	20	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Chrysene	8900 B		210	23	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Dibenz(a,h)anthracene	780 B J		210	20	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Fluoranthene	16000 B		210	19	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Fluorene	510		210	16	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Indeno[1,2,3-cd]pyrene	2900 B		210	34	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
1-Methylnaphthalene	33 J		210	16	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
2-Methylnaphthalene	33 J		210	16	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Naphthalene	210 U		210	16	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Phenanthrene	7600		210	14	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Pyrene	14000 B		210	16	ug/Kg	⊗	12/17/12 16:32	12/27/12 19:58	25
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	0 X			39 - 100			12/17/12 16:32	12/27/12 19:58	25

Sample results have been qualified by URs in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site.

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
 SDG: 68085785-3

Client Sample ID: CV0511Y-CS

Date Collected: 12/12/12 15:00
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-58

Matrix: Solid
 Percent Solids: 68.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	270		49	4.2	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Acenaphthylene	27	J	49	3.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Anthracene	490		49	4.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Benzo[a]anthracene	2200	B	49	4.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Benzo[a]pyrene	2400	B	49	5.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Benzo[b]fluoranthene	3700	B	49	6.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Benzo[g,h,i]perylene	560	B	49	8.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Benzo[k]fluoranthene	1600	B	49	4.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Chrysene	2300	B	49	5.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Dibenz(a,h)anthracene	220	B J	49	4.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Fluoranthene	4300	B	49	4.4	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Fluorene	200		49	3.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Indeno[1,2,3-cd]pyrene	810	B	49	8.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
1-Methylnaphthalene	30	J	49	3.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
2-Methylnaphthalene	38	J	49	3.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Naphthalene	35	J	49	3.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Phenanthrene	2400		49	3.2	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Pyrene	3600	B	49	3.8	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:39	5
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	85			39 - 100			12/17/12 16:32	12/27/12 13:39	5

Client Sample ID: CV0511Z-CS

Date Collected: 12/12/12 15:15
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-59

Matrix: Solid
 Percent Solids: 72.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	17		9.2	0.80	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Acenaphthylene	11		9.2	0.73	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Anthracene	43		9.2	0.91	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Benzo[a]anthracene	330	B	9.2	0.85	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Benzo[a]pyrene	440	B	9.2	0.93	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Benzo[b]fluoranthene	730	B	9.2	1.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Benzo[g,h,i]perylene	120	B	9.2	1.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Benzo[k]fluoranthene	290	B	9.2	0.88	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Chrysene	370	B	9.2	1.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Dibenz(a,h)anthracene	44	B J	9.2	0.89	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Fluoranthene	570	B	9.2	0.82	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Fluorene	14		9.2	0.71	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Indeno[1,2,3-cd]pyrene	150	B	9.2	1.5	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
1-Methylnaphthalene	18		9.2	0.73	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
2-Methylnaphthalene	23		9.2	0.71	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Naphthalene	22		9.2	0.71	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Phenanthrene	210		9.2	0.60	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Pyrene	500	B	9.2	0.71	ug/Kg	⊗	12/17/12 16:32	12/27/12 13:58	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	80			39 - 100			12/17/12 16:32	12/27/12 13:58	1

Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site.

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85785-3
 SDG: 68085785-3

Client Sample ID: CV0511AA-CS

Date Collected: 12/12/12 15:20
 Date Received: 12/14/12 11:51

Lab Sample ID: 680-85785-60

Matrix: Solid
 Percent Solids: 68.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	760		97	8.4	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Acenaphthylene	16	J	97	7.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Anthracene	1100		97	9.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Benzo[a]anthracene	1700	B	97	9.0	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Benzo[a]pyrene	1400	B	97	9.9	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Benzo[b]fluoranthene	2200	B	97	14	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Benzo[g,h,i]perylene	240	B U	97	16	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Benzo[k]fluoranthene	840	B	97	9.3	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Chrysene	1600	B	97	11	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Dibenz(a,h)anthracene	130	B UJ	97	9.4	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Fluoranthene	3900	B	97	8.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Fluorene	640		97	7.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Indeno[1,2,3-cd]pyrene	340	B U	97	16	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
1-Methylnaphthalene	160		97	7.7	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
2-Methylnaphthalene	220		97	7.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Naphthalene	160		97	7.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Phenanthrene	4700		97	6.4	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Pyrene	3400	B	97	7.6	ug/Kg	⊗	12/17/12 16:32	12/27/12 20:16	10
Surrogate		%Recovery		Qualifier		Limits			Dil Fac
<i>o-Terphenyl (Surr)</i>		77				39 - 100			
							Prepared	Analyzed	
							12/17/12 16:32	12/27/12 20:16	

Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)